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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/446,888	12/30/1999	TOSHIYUKI FUTAKATA	6342-0039-2	3055

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EXAMINER	
KUMAR, PANKAJ	

ART UNIT	PAPER NUMBER
2611	

NOTIFICATION DATE	DELIVERY MODE
06/15/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
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## Interview Summary

Application No.

09/446,888

Applicant(s)

FUTAKATA ET AL.

Examiner

Pankaj Kumar

Art Unit

2611

All participants (applicant, applicant's representative, PTO personnel):

(1) Pankaj Kumar.

(3) \_\_\_\_\_.

(2) Ron Rudder.

(4) \_\_\_\_\_.

Date of Interview: 11 June 2007.

Type: a) ☐ Telephonic b) ☐ Video Conference

c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☒ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1-9.

Identification of prior art discussed: N/A.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Proposed amendment attached overcomes the prior rejection. The proposed amendment would require further consideration/search.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.



Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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### IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (PROPOSED): A spreading code assigning method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having a same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said method comprising the steps of:

~~assigning~~ generating a common code associated with each a base station group including more than one base station as said second spreading code, wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said more than one base station and in mobile stations belonging to said more than one base station; and.~~

storing said common code in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 2 (PROPOSED): A signal transmitting method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as

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an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said method comprising the steps of:

~~assigning~~ generating a common code associated with each a base station group including more than one base station as said second spreading code;

storing said common code in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group; and

transmitting a signal which is spread with said second spreading code between one of said more than one base station and a mobile station, wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said more than one base station and said mobile station.~~

Claim 3 (PROPOSED): A direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system, said system comprising:

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a base station using said second spreading code as a common code assigned to ~~each a~~  
base station group, said base station group including more than one of said base station; and

a mobile station communicating with said base station by using a signal which is  
spread by said second spreading code assigned to said base station,

wherein said second spreading code functions as an identifier of said base station  
~~group or said network type in said base station and said mobile station and~~

said common code is stored in base stations of said base station group and a mobile  
station belonging to said base station group to permit communication between the mobile  
station and the base station group.

Claim 4 (PROPOSED): A transmitter in a direct sequence CDMA mobile  
communication system for transmitting a signal after spreading said signal doubly with a first  
spreading code in a first spreading code group and a second spreading code in a second  
spreading code group, said first spreading code having the same repetition period as an  
information symbol period in the communication system, said second spreading code having  
a longer repetition period than the information symbol period, said first spreading code and  
said second spreading code forming enlarging spreading codes for enlarging a band of a  
wide-band signal of the communication system, a rate of said enlarging spreading codes  
being higher than an information rate of the communication system,

said transmitter assigning a common code associated with ~~each a~~ base station group  
including more than one base station as said second spreading code, and

said transmitter carrying out a communication using a signal spread by said second  
spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station  
~~group or said network type in a receiver that receives said signal from said transmitter and~~

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said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 5 (PROPOSED): A receiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said receiver assigning a common code associated with each base station group including more than one base station as said second spreading code, and

said receiver carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said receiver, and.~~

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 6 (PROPOSED): A transceiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first

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spreading code in first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transceiver assigning a common code associated with each base station group including more than one base station as said second spreading code, and

said transceiver carrying out a communication using a signal spread by said second spreading code assigned, to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said transceiver, and~~

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

Claim 7 (PROPOSED): A transmitter in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a



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wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transmitter assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said transmitter carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group ~~or said network type in a receiver that receives said signal from said transmitter, and.~~

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

said transmitter comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

Claim 8 (PROPOSED): A receiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a wide-band signal

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of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said receiver assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said receiver carrying out a communication using a signal spread by said second spreading code assigned to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said receiver, and.~~

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

said receiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

Claim 9 (PROPOSED): A transceiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period in the communication system, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming enlarging spreading codes for enlarging a band of a

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wide-band signal of the communication system, a rate of said enlarging spreading codes being higher than an information rate of the communication system,

said transceiver assigning a common code associated with each base station group including more than one base station or a common code associated with each network type to which said base station group belongs as said second spreading code, and

said transceiver carrying out a communication using a signal spread by said second spreading code assigned, to one of said more than one base station,

wherein said second spreading code functions as an identifier of said base station group ~~or said network type in said transceiver, and,~~

said common code is stored in base stations of said base station group and a mobile station belonging to said base station group to permit communication between the mobile station and the base station group.

said transceiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.